LESSON 8.6

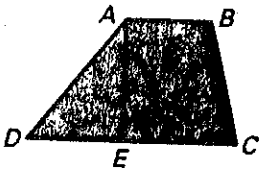
NAME _____ DATE _____

Practice A

For use with pages 446–450

Lesson 8.6

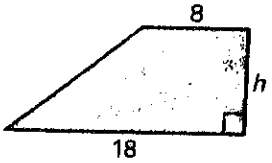
Use the figure at the right.

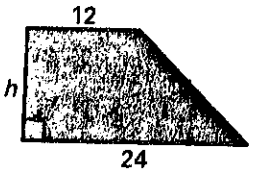


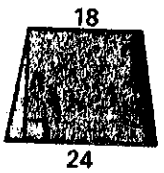
1. Identify the height of trapezoid $ABCD$.
2. Identify the bases of trapezoid $ABCD$.
3. State the formula for the area of a trapezoid. Use h for the height, and b_1 and b_2 for the bases.

Match the trapezoid with the equation used to find the height.

A. $A = \frac{1}{2}(h)(18 + 24)$ **B.** $A = \frac{1}{2}(h)(8 + 18)$ **C.** $A = \frac{1}{2}(h)(12 + 24)$

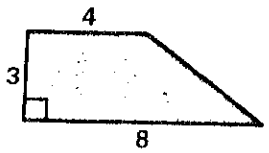
4. 

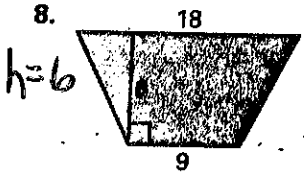
5. 

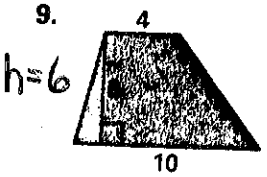
6. 

h = h

Find the area of the trapezoid.

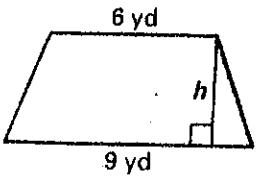
7. 

8. 

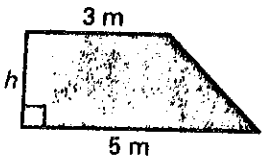
9. 

***A* represents the area of the trapezoid. Find the height.**

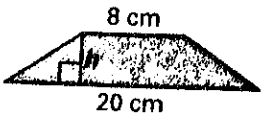
10. $A = 30 \text{ yd}^2$



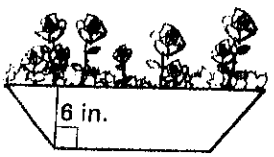
11. $A = 8 \text{ m}^2$



12. $A = 56 \text{ cm}^2$



13. The front side of the flower box shown below is a trapezoid. The height of the box is 6 inches. The top is 25 inches long and the bottom is 15 inches long. Find the area of the front of the flower box.



LESSON 8.7

NAME _____ DATE _____

Practice A

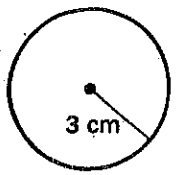
For use with pages 451–459

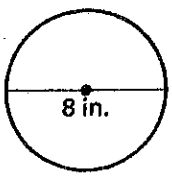
Match the key word with the descriptive phrase.

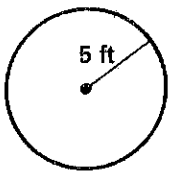
1. the set of all points in a plane that are the same distance from a given point, called the center
2. the distance from the center to a point on the circle
3. the distance across the circle, through the center
4. the distance around a circle
5. an angle of a circle whose vertex is the center of the circle
6. a region of a circle determined by two radii and a part of the circle

A. diameter
B. circumference
C. circle
D. radius
E. sector
F. central angle

In Exercises 7–11, use the formula $C = \pi d$ or the formula $C = 2\pi r$ to find the circumference of the circle. Round your answer to the nearest whole number.

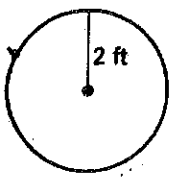
7. 

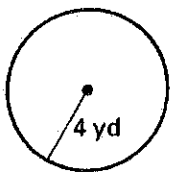
8. 

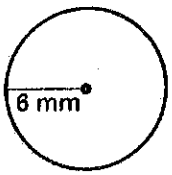
9. 

10. a circle with a radius of 2 yards
11. a circle with a diameter of 6 meters

Use the formula $A = \pi r^2$ to find the area of the circle. Round your answer to the nearest whole number.

12. 

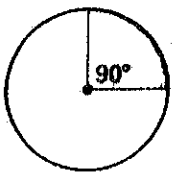
13. 

14. 

A represents the area of the entire circle and x represents the area of the shaded sector. Complete the proportion used to find x. Do not solve the proportion.

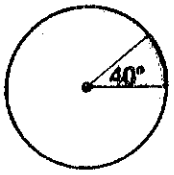
15. $A = 16 \text{ m}^2$

$$\frac{x}{?} = \frac{?}{360^\circ}$$



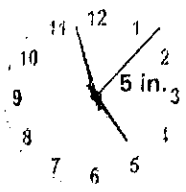
16. $A = 18 \text{ ft}^2$

$$\frac{x}{?} = \frac{?}{360^\circ}$$



The radius of the face of the clock is 5 inches.

17. Find the circumference of the face of the clock. Round your answer to the nearest whole number.
18. Find the area of the face of the clock. Round your answer to the nearest whole number.



Lesson 8.7